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# Contents

<b>Unpacking</b> .....	2	<b>Open TV Electronic Programme Guide</b> .....	15
<b>Safety</b> .....	2	Using the EPG .....	15
<b>Preface</b> .....	2	<b>Open TV Information Bar</b> .....	16
<b>Digital Satellite Services</b> .....	2	<b>Reminders</b> .....	16
<b>Conditional Access</b> .....	3	<b>Program Blocking</b> .....	16
Smart Card .....	3	<b>Menu Navigation Route</b> .....	17
Inserting the Smart Card .....	3	<b>Using Menus</b> .....	18
<b>The Digital Satellite Decoder (DSD)</b> .....	4	Language Selection .....	18
Display .....	4	Language Options in Guide & Menu .....	18
Front Panel Keys .....	4	Soundtrack Options .....	18
Rear Panel Connections .....	4	Program Blocking Options .....	19
<b>Remote Control Unit</b> .....	5	Blocking Options .....	19
Replacing Batteries in the RCU .....	5	Changing the Pin Code for Blocking .....	19
<b>Getting Started</b> .....	6	Information Box Display Period .....	20
Installation of the satellite dish and cabling to the decoder .....	6	Change PU:SE-PIN Code .....	20
Installation Indemnity .....	6	Channel Arrangement Options .....	20
Setting-up the System .....	6	Delete TV Channels .....	20
Switching on the Decoder at the Mains .....	6	Sort TV Services .....	20
Tuning your TV .....	6	Original TV Channel Setup .....	21
Adding a Modem .....	7	Delete Music/Radio Channels .....	21
Standby and Normal Modes .....	7	Sort Music/Radio Channels .....	21
Optional Decoder Connections .....	8	Original Music/Radio Channel Setup .....	21
Introduction .....	8	Search Service Names .....	21
Hints to Quality TV System Configurations .....	8	Mailbox .....	21
Satellite Decoder, TV (using SCART or RF		Advanced Options .....	21
Interface) .....	8	Change Dish Installation .....	21
Decoder, TV (SCART or RF Interface), Hi-Fi .....	9	LNB Configuration .....	21
Decoder, VCR, TV, Hi-Fi .....	10	Set LNB Power .....	22
Decoder, VCR, TV, Hi-Fi (using RCA Connectors) .....	11	LNB Setup .....	22
Two Satellite Decoders, TV, (using RF Connector) .....	12	Signal Setup .....	22
RCU UHF Button Selection Functions .....	12	Tune DSD .....	22
<b>Bouquet Selection</b> .....	13	Reset to Factory Defaults .....	22
Selecting Specific Services .....	13	Loop Through Mode .....	22
Selecting Services Directly .....	13	Signal Detection .....	22
Stepping through Services .....	13	Information .....	23
Stepping using the RCU .....	13	DSD Status .....	23
Stepping using the Decoder Front Panel Keys .....	13	CA Status .....	23
Selecting Specific Services from the EPG .....	14	Loader Status .....	23
Selecting Services from the Information Bar .....	14	TV Installation .....	23
<b>Controlling the Show</b> .....	14	TV Type .....	23
Volume Control using the RCU Keys .....	14	Aspect Ratio .....	23
Volume Control using the Decoder Keys .....	14	UHF Tuning .....	23
Mute .....	14	Scart Source .....	24
Displaying Subtitles or Teletext .....	14	Scart Video Output .....	24
Subtitles .....	14	Change Modem Settings (if fitted) .....	24
Teletext .....	14	Local Time .....	24
Clock .....	15	DSD Upgrade .....	24
Selecting Soundtracks .....	15	<b>Troubleshooting</b> .....	25
Power Reset .....	15	<b>Specifications</b> .....	29
Signal Source Selection .....	15	<b>Hotlines</b> .....	30
		<b>Installation Settings</b> .....	30
		<b>Notes</b> .....	31

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## UNPACKING

Ensure that the following items are included with the Digital Satellite Decoder (DSD):

1 x Remote Control Unit (RCU)  
2 x AAA Batteries  
1 x Flylead  
1 x Mains Cable  
1 x User Manual (Operating Instructions)

## SAFETY

This decoder meets/exceeds International Safety Standards. Please read the following recommended safety precautions carefully.

**MAINS SUPPLY:** 210-250 V AC 50 Hz ONLY.

**LIQUIDS:** Keep liquids away from the decoder.

**CLEANING:** Use a dry cloth to clean the exterior.

**VENTILATION:** Do not block the decoder ventilation holes. Ensure that free airflow is maintained around the decoder. NEVER stand the decoder on soft furnishings or carpets. Do not use or store the decoder where it is exposed to direct sunlight, or near a heater. Never stack other electronic equipment on top of the decoder.

**ATTACHMENTS:** Do not use any attachment that is not recommended by the manufacturer, as it may cause a hazard or damage the equipment.

**CONNECTION TO THE SATELLITE DISH LOW NOISE BLOCK (LNB):** The LNB connector cable has a voltage on its centre core. It is therefore recommended that the decoder is disconnected from the mains power before connecting or disconnecting this cable. **FAILURE TO DO SO COULD DAMAGE THE LNB.**

**SERVICING:** Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.

**LIGHTNING:** If the decoder is installed in an area subject to intense lightning activity, protection devices for the decoder mains connector and modem telephone line are essential. The individual manufacturer's instructions for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the decoder, must also be followed during lightning storms.

**EARTHING:** The earth of the LNB cable MUST BE DIRECTLY CONNECTED to the system earth for the satellite dish. The earthing system must comply with local regulations.

Refer to the Installation Indemnity on page .

## PREFACE

The digital satellite decoder introduces exciting new technology. This manual provides full information on how to use the decoder and enjoy the benefits of all its features.

The decoder is easy to use, even for those users unfamiliar with, or intimidated by, modern technology. The more advanced and more complex features can be avoided until you become comfortable with the basic operation of the system.

The manual provides:

- Important safety precautions; please study them.
- Overview material; read only those parts that interest you. It is not necessary to study the manual from cover to cover before using the decoder.
- Step-by-step instructions on how to use the decoder and its advanced features.
- Step-by-step instructions on how to install the decoder and connect it to basic sound and TV systems. It is beyond the scope of this manual to include all of the possible configurations or installation procedures.
- Troubleshooting guide to assist you if you have difficulty with operating the decoder correctly, or technical problems occur.

The operation of the decoder can be upgraded using over-the-air signals (typically in the morning). This manual and the menus downloaded in the decoder are therefore subject to change at any time.

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## DIGITAL SATELLITE SERVICES

The decoder has been designed to receive and process digital signals from the Optus B3 Aurora satellites. The satellites act as mirrors in the transmission process, beaming the Service Provider's signals back to your satellite dish. Compared to conventional TV (analogue), digital technology presents higher quality pictures, sound comparable to that of a CD, and many more services.

Satellite technology also enables excellent reception of satellite TV services in remote rural areas where good quality terrestrial reception has never before been possible.

The term "Services" is used instead of "Channels" because compressed digital TV and audio technology efficiently uses available bandwidth, allowing several services to use the bandwidth of one channel.

In addition to the digital TV and audio signals, satellite signals also contain data that the decoder extracts, processes and stores. This provides up-to-date text information on the content and status of the various services at the touch of a button. Convenient facilities are also provided to manipulate received data in order to customise viewing and listening preferences.

Due to the nature of compressed digital TV, many more features will become available in the near future.

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## CONDITIONAL ACCESS

Although some satellite TV and audio services are free to air, most TV and audio services can only be enjoyed via the conditional access components. These are the removable Smart Card and a built-in conditional access process already fitted into the system.

### Smart Card

The Smart Card looks similar to a credit card and is inserted into the slot behind the right-hand front flap of the decoder.

A valid Smart Card entitles you to view and listen to all the services you choose.

### Inserting the Smart Card

The Smart Card is the key to unlocking the decoder. The decoder will not decode scrambled TV or audio services if the card is not inserted or is incorrectly inserted.

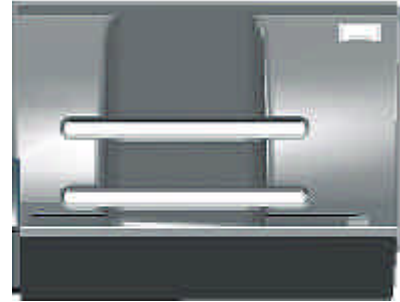
Inserting the Smart Card into the decoder allows instant access to all the services.

The Smart Card is not required for access to menus.

The Smart Card is updated over-the-air each time there are new services available.

To insert the Smart Card, follow the instructions carefully.

- 1 Open the right hand flap on the front of the decoder (see figure) Swing the flap downwards to expose the card slot to the right of the row of keys.
- 2 Hold the Smart Card horizontally with the logo on top and the three arrows pointed towards the front of the card. Insert the card fully into the **open** bottom slot.



## THE DIGITAL SATELLITE DECODER (DSD)

The DSD combines a high quality MPEG-2 and DVB compliant satellite receiver, with a sophisticated decoder in one package. The DSD provides all that you need to exploit the exciting new satellite services that are now available.



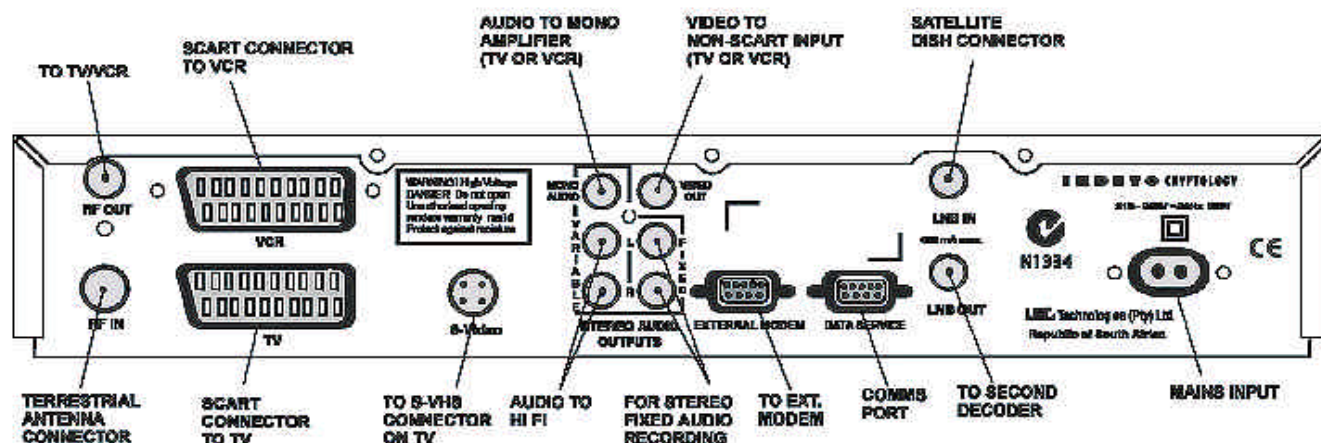
### DISPLAY

Download in progress. Steady yellow light	Green dot flashes when RCU keys are pressed	Yellow light. Mail message waiting	Red light Error indication	Menu selected

### FRONT PANEL KEYS

Key	Description
	Switches the decoder between normal and standby modes
	Switches between TV and Audio services
	Switches between programme selection and volume control
	Selects next service on list (up) or increases volume level
	Selects previous service on list (down) or decreases volume level
	When pressed simultaneously, reset the operation of the decoder

### REAR PANEL CONNECTIONS



## Remote Control Unit (RCU)

When pressed once then released, toggles between the various INPUT sources (VCR, TV, IRD).  
When pressed, held for 5 seconds then released, displays the UHF tuning channel. Press once to remove the tuning channel.

Puts the decoder into standby or takes it out of standby



### Inserting/changing the batteries

- Never leave flat batteries in the remote control
- Only Insert AAA size batteries
- Make sure batteries are correctly positioned, or remote will not work

When pressed, displays the last viewed programme.

Displays the local time and date on the TV

Displays the Main Menu, or, if a menu is displayed, returns to the last viewed programme

Displays a programme information bar on the screen for 5 seconds. When pressed again, displays extended event information

### ▲ and ▼ arrow keys

Move the highlights up or down the screen when a menu or TV/Radio guide is displayed

Selects the Electronic programme guide (EPG) which displays all the available TV and Radio programmes

◀ and ▶ arrow keys  
Switches options in menus

Removes the TV/Radio guide or information from the screen and redisplay the last programme you were watching.  
If a menu is displayed, pressing EXIT returns you to the previous menu.

Selects a programme in when in the EPG and selects highlighted options or values in menus. Saves any changed settings in menus

### P+ and P- keys

Steps through the channels one at a time (+ for next, - for previous)

V+ and V- keys  
Adjusts the volume up or down

**Number keys 0 to 9**  
Selects programmes, or keys in numbers e.g. PIN number

Switches in a TV channel from a Radio channel. Displays available bouquets on screen

Switches to a Radio channel from a TV channel

Mutes the sound from the TV

Displays soundtrack information on the TV for 5 seconds. Where options are available, the display identifies the numbers

Displays subtitle options (if available) on the TV. When pressed again, displays teletext on channels where it is available





## GETTING STARTED

**NOTE:** Unless absolutely necessary, do not change installation, connections or decoder setup, or carry out any retuning on a working system. If changes are made, note all changed settings in the table on page 30.

### Installation of the satellite dish and cabling to the DSD

Installation procedures for satellite dishes and cabling to DSDs are outside the scope of this manual. Please refer to the manuals provided with your satellite dish and associated equipment if you decide to do the installation yourself.

#### Installation Indemnity

- 1 For the decoder to operate, it is required to correctly install and align a satellite dish and a Low Noise Block (LNB) converter.
- 2 Each and every INSTALLER acts as an independent contractor and is not a servant, sub-contractor or agent of the manufacturer. The manufacturer is, therefore, not liable for any loss or damage of any nature whatsoever caused by the conduct of the installer, including but not limited to:
  - a. Any direct, indirect or consequential damages of any nature or any loss of profit or other special damages of any nature which the USER may suffer as a result of any breach by the INSTALLER of any of its obligations to the USER.
  - b. Any loss or damage to any property of the user or any third party, situated on the USER's premises even if loss or damage arises out of any part of the INSTALLER.
- 3 The manufacturer does not directly or indirectly warrant or guarantee or make any representations whatsoever with regard to any equipment, including, but not limited to any dish, LNB, or cabling, used by the INSTALLER.
- 4 Subject to any express warrant or guarantee given by the manufacturer, in writing, the manufacturer does not:
  - a. Give any warranty or guarantee or make any representation whatever in respect of any work carried out by the INSTALLER.
  - b. Accept any liability for any latent or other defect in any work carried out by the INSTALLER.

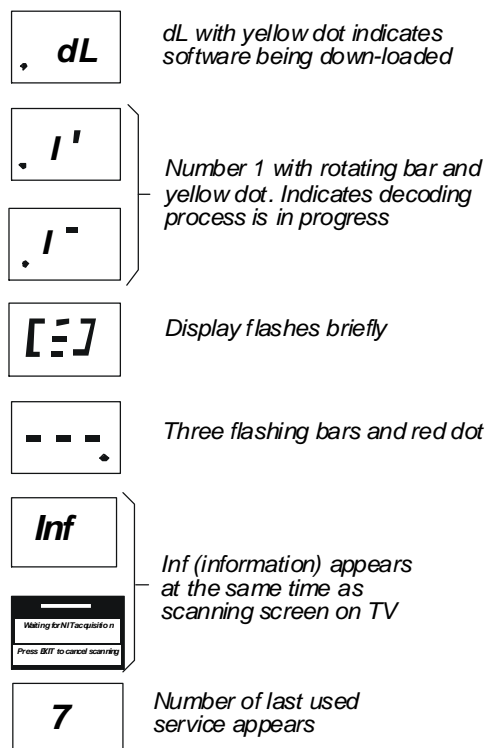
### Setting-up the System

- 1 Install and align satellite dish (installer).
- 2 Connect the decoder to the TV set (either SCART to SCART or RF OUT on the decoder to RF IN on the TV). (See Optional Decoder Connections.)

### Switching on the Decoder at the Mains

When you switch on the decoder at the mains, it goes through a power-up sequence, then attempts to find a signal at the specific factory-set frequency. During this process, various indications are displayed on the decoder display and TV, as shown in the following sequence of drawings:

**NOTE:** If the TV is not tuned to the channel chosen to view the satellite services, the sequence is still the same, but the TV will not display the scanning screen. To tune the TV to the decoder services, tune the TV as per *Tuning Your TV*.



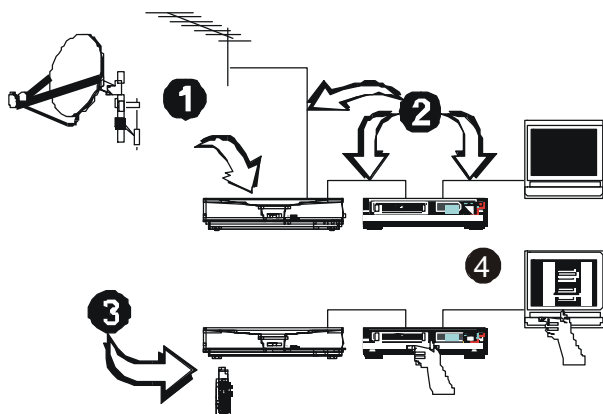
If your TV has been tuned to accept the decoder services, but your smart card has not been inserted into the decoder, an error message will appear on your TV screen.

If your decoder was in standby mode at mains power switch off, the decoder will display a green dot when mains power is restored. Press On/Off symbol to restore viewing.

### Tuning your TV

If your TV is not tuned to the decoder viewing channel, you will not be able to view the satellite services. Your VCR, decoder and TV can also interfere with each other unless they are tuned in correctly. The output of the decoder can be tuned over the whole UHF band using the following recommended method (refer to the following figures):

- 1 Connect the satellite dish and terrestrial antenna (installer).
- 2 Connect the installation as shown (if VCR installed).
- 3 Switch on the TV and select an unused channel to use with your VCR.
- 4 Switch on your VCR, then set its test signal to ON (see VCR instruction manual).
- 5 Tune the TV to the test signal from the VCR. Switch off the VCR test signal.



- 6 On the TV, select any unused channel on which you wish to view your satellite programmes. Once selected, all your satellite services will be viewed on this channel, selection of the service being made using the RCU.
- 7 Press and hold UHF on the RCU for approx. 5 seconds until UHF is displayed on the decoder display. Tune your TV set to receive the decoder test signal display (see following figure).



A Channel number (initially 38) will be displayed on the decoder front panel display.

Press UHF on the RCU to remove the test signal.

Check that any noise from the decoder does not interfere with signals received on the VCR.

Check all tuned channels on the TV for interference.

- 8 If any interference is noticed, change the UHF channel number as follows:

Press and hold UHF on the RCU to display UHF on the decoder display and the UHF test screen on the TV.

Change the channel number to 2 more or 2 less than the existing number (36 or 40) by pressing ◀ or ▶ twice on the RCU.

Press OK to save. The following will happen as soon as ◀ or ▶ is pressed:

- a. The TV display is lost because the TV is not tuned to the new channel.
- b. The new channel number is displayed on the front panel of the decoder.

On the TV, retune the channel allocated to the decoder until the decoder test pattern is clearly visible.

Repeat step 8 until interference on all channels is eliminated.

**NOTE:** After changes have been made, the decoder must not be switched off for at least 3 minutes to allow for the new setting to be saved.

*If interference is still present, it is recommended that good quality screened cables (preferably double screened) are used for interconnecting all other equipments to the decoder.*

### Adding a Modem

Many exciting interactive features will be available in the future (Impulse Pay Per View, Video on Demand, etc.). The decoder is ready for these features as it can accommodate an optional built-in modem. A modem port for connection to your telephone line via an external (faster) modem is provided on the rear panel.

### Standby and Normal Modes

The decoder does not have a mains power on/off switch and it is recommended that, for normal viewing, it remains connected to the mains after installation. When the decoder is not in use, it should be switched to the standby mode using the ⏻ symbol on the front panel or on the RCU.

The standby mode is indicated by a constant small green dot on the right of the decoder display panel. To use the decoder after the initial installation:

- 1 Switch on the TV and any other equipment included in the system.
- 2 Select the channel on the TV that you have allocated for viewing the satellite services.
- 3 If the decoder is in the standby mode, press ⏻ on either the RCU or decoder front panel, to return to the normal viewing mode. A service number will be displayed on the front panel indicator.
- 4 If you wish to select the Audio Services, press the 🔊 key on the RCU, or 🔊 on the decoder front panel. If subscribed to, an audio service will be heard, and the audio programme information box will be displayed on the TV. A green indicator on the front panel display is illuminated while the decoder is in the Audio Services mode.

TV Services are restored by pressing TV on the RCU, or TV on the decoder front panel.

**NOTE:** When switching from normal to standby then back to normal, the decoder automatically returns to the previously selected service.

**If a SCART VCR is connected, it is not necessary to take the decoder out of standby to view VCR play back.**

- 5 The decoder is set up to the local default settings by the manufacturer. If it becomes necessary to change the installation parameters consult your local installer.

## Introduction

The following more common examples enable you to view satellite services and terrestrial channels, record and playback from a VCR and listen to CD quality stereo sound on a Hi-Fi.

## Hints to Quality TV System Configurations

- Where possible, connect cables via audio/video outputs/inputs (SCART or RCA) instead of RF connectors.
- Use an appropriate, correctly installed satellite dish system.
- Ensure that the system is properly earthed and protected against lightning.
- Use high quality stereo TV and Hi-Fi equipment.
- Use high quality screened cables.

**Satellite Decoder, TV (using SCART or RF Interface)**

**NOTE:** As the LNB carries a small voltage from the decoder on its centre connector, it is recommended that the decoder is switched off at the mains before connecting or disconnecting the LNB connector to/from the decoder.

- 1 Connect the terrestrial antenna connector to the RF IN socket on the satellite decoder.
- 2 If a VCR is included in the installation, this is connected into the system as per the diagram on page 10.

The following instruction applies if your TV has a SCART connector.

- Using a SCART-to-SCART cable (not supplied), connect the TV SCART socket on the decoder to the SCART socket on the TV.

The following instruction applies if your TV does not have a SCART connector.

- 4 Use the supplied flylead to connect the RF OUT socket on the decoder to the RF IN socket on the TV.
- 5 Connect the coaxial cable connector from the LNB on the satellite dish into the socket marked LNB IN on the decoder. The connector on the coaxial cable should be turned until it is finger tight.
- 6 If your TV has a S Video connector, connect to S VHS connector on the decoder. Also, connect Mono Audio on decoder to Audio In on the TV.



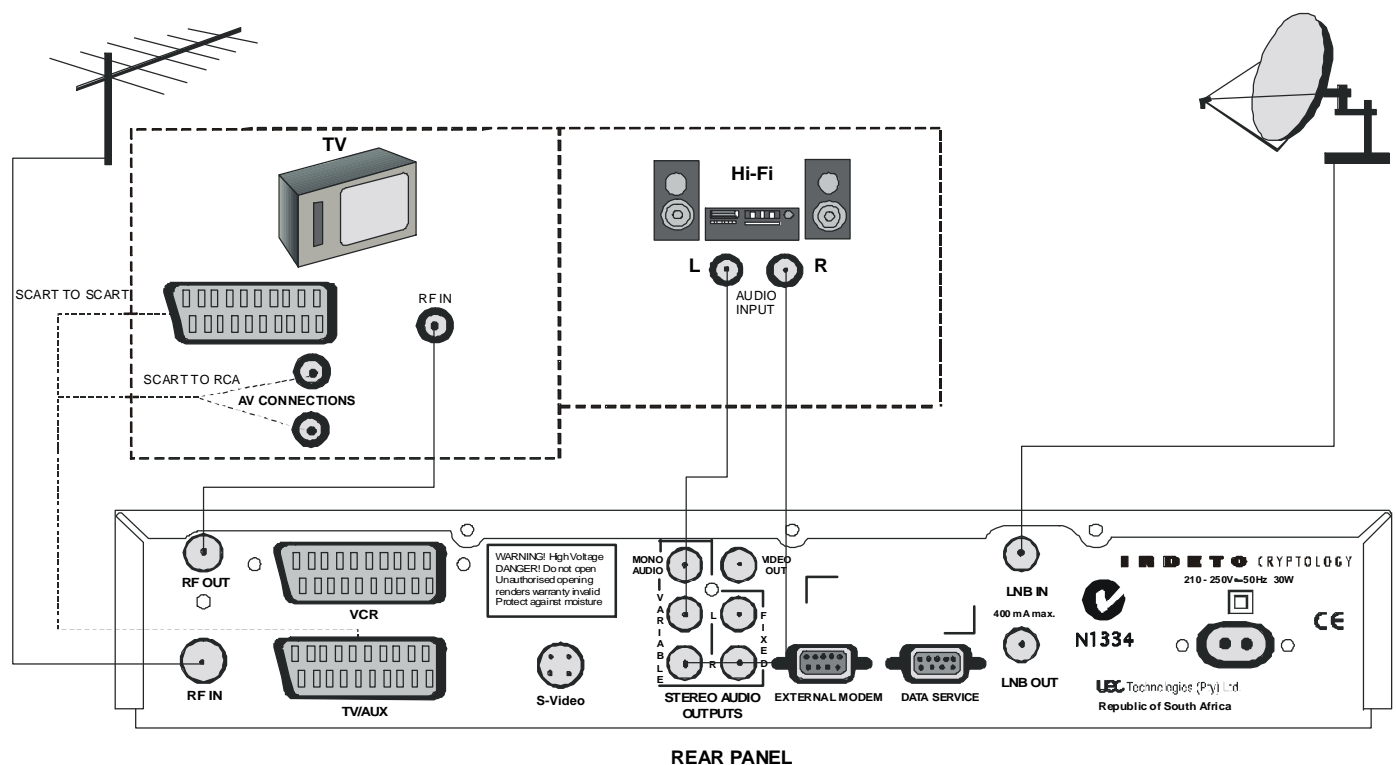


## Decoder, TV (SCART or RF Interfaces), Hi-Fi

**NOTE:** It is recommended that you switch off the mains supply to the decoder before connecting or disconnecting the LNB connector.

- 1 Connect the terrestrial antenna connector to the RF IN socket on the decoder.
- 2 Connect a flylead between the variable stereo sound outputs on the decoder and the audio inputs on the Hi-Fi.
- 3 Connect the coaxial cable connector from the LNB on the satellite dish into the connector marked LNB IN on the decoder. The connector on the coaxial cable to the decoder should be finger tight.

- 4 Using a SCART-to-SCART cable (not supplied), connect the TV SCART socket on the decoder to the SCART socket on the TV.
- 5 If the TV does not have a SCART socket, use the supplied flylead to connect the RF OUT connector on the decoder to the RF IN connector on the TV.



## Decoder, VCR, TV, Hi-Fi

**NOTE:** It is recommended that you switch off the mains supply to the decoder before connecting or disconnecting the LNB connector.

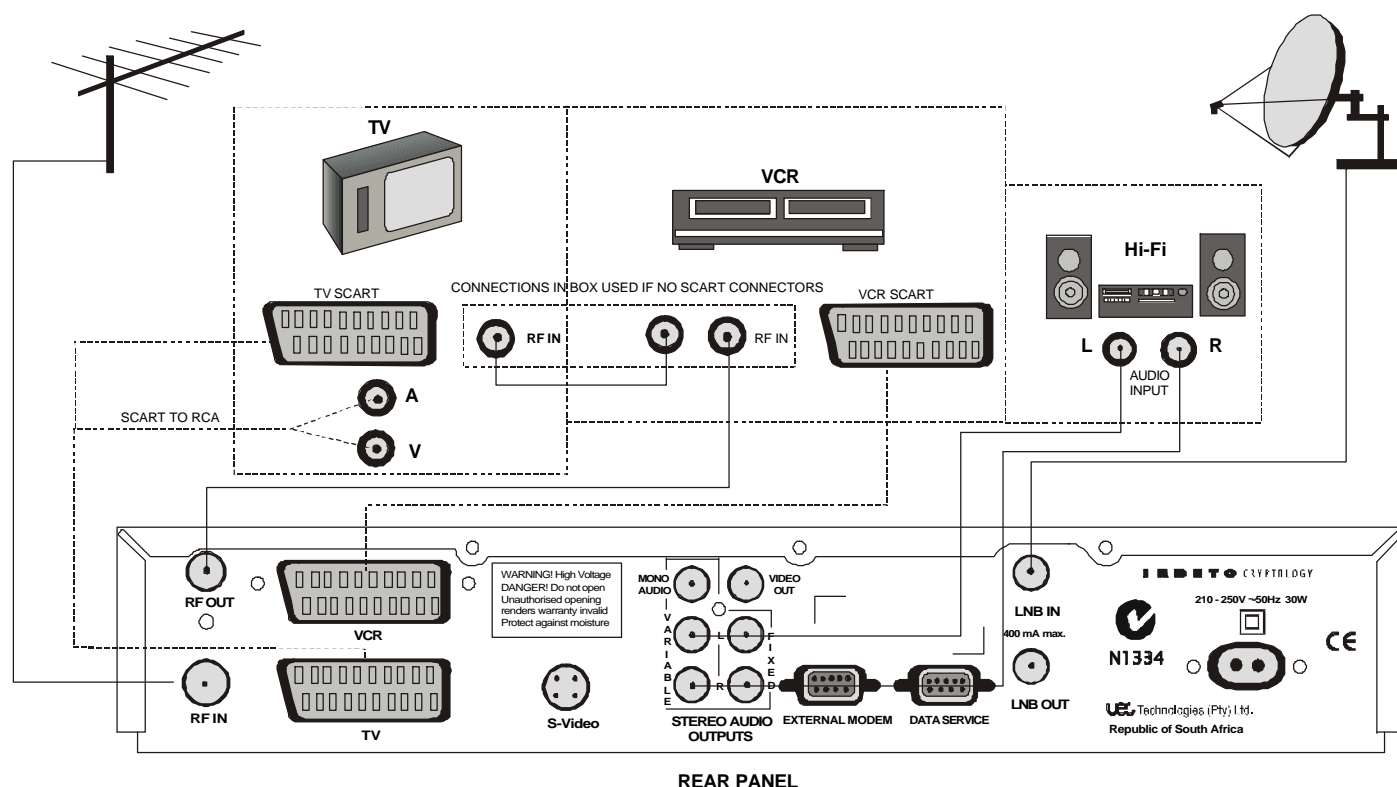
- 1 Connect the terrestrial antenna connector to the RF IN socket on the decoder.

Follow Steps 2 to 4 if you are not using SCART connectors

- 2 Using the supplied flylead, connect the RF OUT connector on the decoder to the RF IN connector on the VCR.
- 3 Using the flylead supplied with the VCR, connect RF OUT on the VCR to the RF IN on the TV
- 4 Connect the coaxial cable from the satellite dish to the LNB IN connector on the decoder. Tighten the connector finger tight.

Follow steps 5 and 6 if you are using SCART connections

- 5 Using a SCART-to-SCART cable (not supplied), connect the TV SCART connector on the decoder to the SCART socket on the TV.
- 6 Using another SCART cable, connect the VCR SCART on the decoder to the SCART on the VCR.
- 7 Connect the VARIABLE LEFT and RIGHT HI-FI AUDIO OUT connectors on the decoder to the LEFT and RIGHT AUDIO INPUT connectors on the Hi-Fi.
- 8 Switch power on to the decoder.
- 9 Set the TV and VCR Scart Source and TV and VCR Scart Video Output using the TV Installation menu. See page 23.



## Decoder, VCR, TV, Hi-Fi (using RCA Connectors)

**NOTE:** It is recommended that you switch off the mains supply to the decoder before connecting or disconnecting the LNB connector.

- 1 Connect the terrestrial antenna to the RF IN socket on the decoder.
- 2 Using the supplied flylead, connect the RF OUT on the decoder to the RF IN on the VCR.
- 3 Using the flylead supplied with the VCR, connect the RF OUT on the VCR to the RF IN on the TV.
- 4 Connect the coaxial cable connector from the LNB on the satellite dish into the socket marked LNB IN on the decoder. Tighten the connector finger tight.

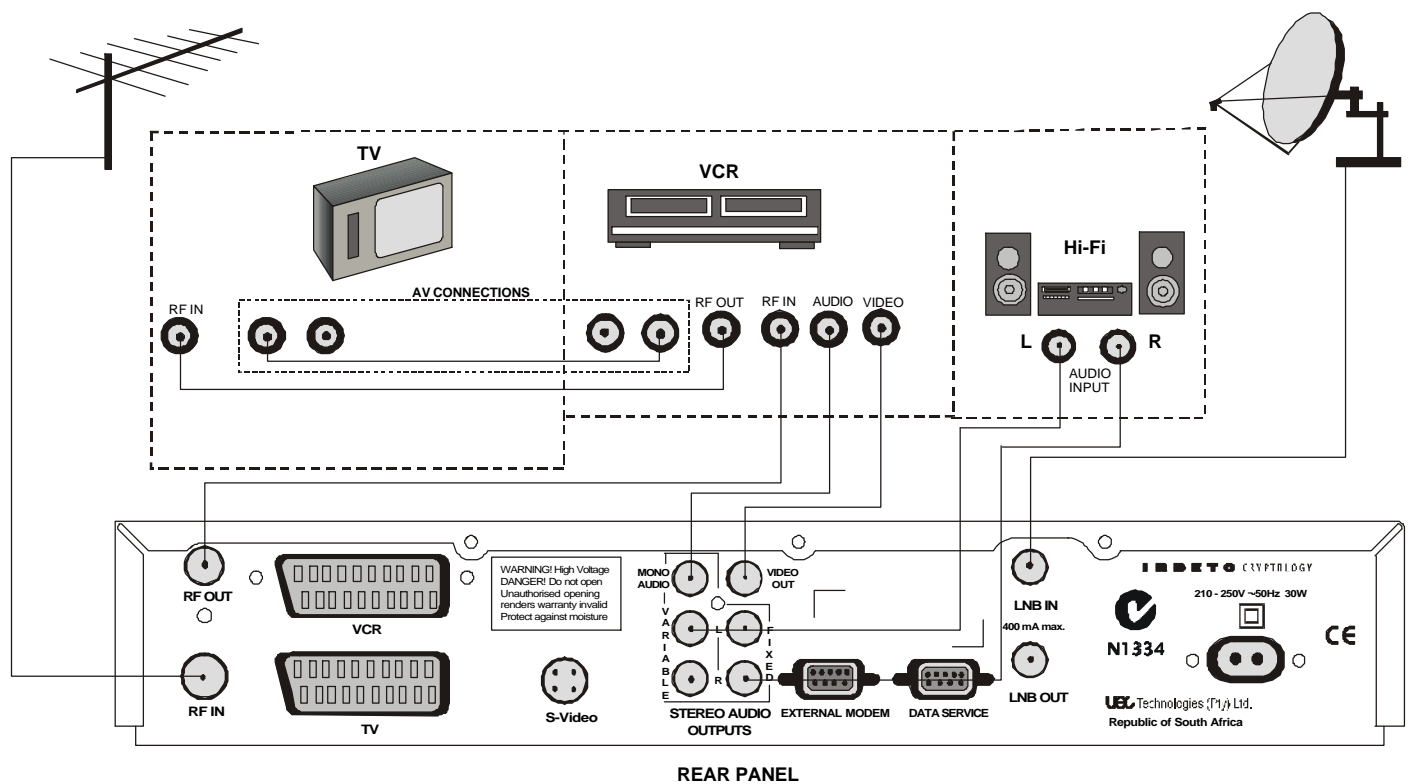
- 5 If the TV and VCR have AV connectors, connect as shown in the diagram.

- 6 Connect the VIDEO OUT connector on the decoder to the VIDEO IN connector on the VCR.

- 7 Connect the MONO AUDIO socket on the decoder to the AUDIO IN socket on the VCR.

**NOTE:** If your VCR has a stereo audio input, connect the **FIXED** stereo audio outputs from the decoder to the VCR stereo audio connector.

- 8 Switch the power on to the decoder.



## Two Satellite Decoders, TV (using RF Connector)

The TV SCART connector on a second analogue or digital receiver has audio, video (RGB) and composite video input connections that can be used to view programmes. If a second receiver is connected, signals from selected sources are automatically routed internally in the decoder to the TV SCART connector.

- 1 Connect the terrestrial antenna connector to the RF IN socket on the decoder.

**NOTE:** It is recommended that you switch off the mains supply to the decoder before connecting or disconnecting the LNB

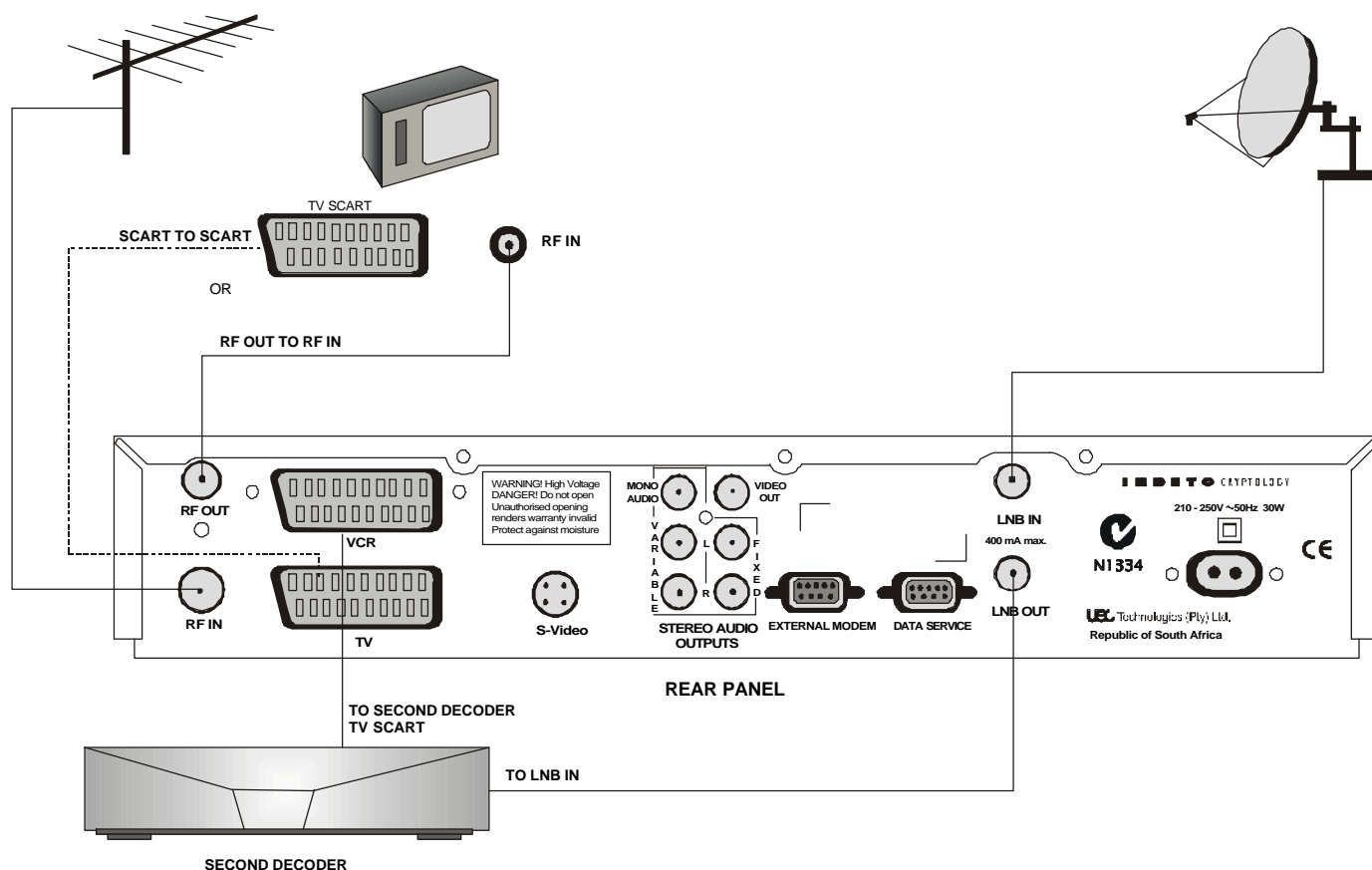
- 2 Using a SCART-to-SCART cable (not supplied), connect the TV SCART socket on the decoder to the SCART socket on the TV.
- 3 If the TV does not have a SCART connector, use the supplied flylead to connect the RF OUT socket of the decoder to the RF IN socket on the TV.
- 4 Connect the coaxial cable connector from the LNB on the satellite dish into the socket marked LNB IN on the decoder. The connector on the coaxial cable should be turned until it is finger tight

- 5 On the first decoder, connect a second cable with F-type connectors (not supplied), from the LNB OUT connector to LNB IN connector on the second decoder.
- 6 Connect a second SCART to SCART connector between the VCR SCART connector on the decoder and the TV SCART on the second decoder.

## RCU UHF Button Selection Functions

Pressing UHF on the RCU with the second decoder connected and operating, selects the TV viewing source in the sequence VCR, TV and IRD. If VCR is selected, the satellite picture is routed to the TV and VCR from the second decoder.

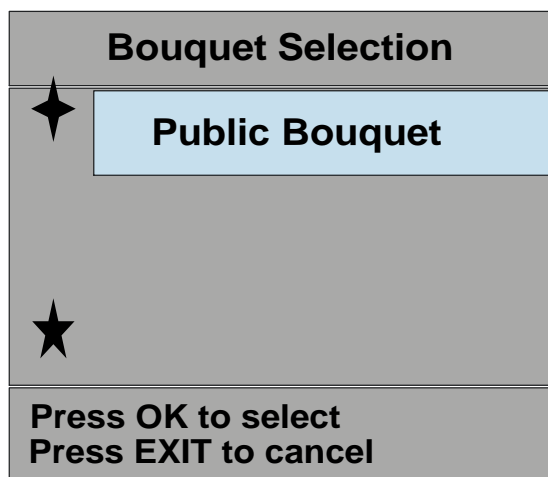
If a second satellite decoder is being used, consult the installer as to the menu setup requirements.



## Bouquet Selection

The TV services are transmitted in packages called BOUQUETS, each bouquet containing a series of services. The decoder has provision for several bouquets, any of which can be selected by pressing TV on the RCU, highlighting the required bouquet using the up/down arrows on the RCU, then following the on-screen instructions. Currently there is only one bouquet available called the Public Bouquet, there may be more bouquets available in the future and to access them follow the above procedure.

When a bouquet is selected, the services in that bouquet will be listed numerically in the Electronic Programme Guide (see page 15).




## Selecting Specific Services

Specific TV or Audio Services can be selected, either:

- Directly
- By stepping through services
- By using the Open TV Electronic Programme Guide (EPG), or
- By using the Open TV Information Bar.

### Selecting Services Directly

Services can only be selected directly using the RCU. To select a specific service, do the following:

- 1 To select an audio service, press  on the RCU. Press TV to restore TV services.
- 2 Press the number of the required service on the RCU's numerical keypad.

The specific service will be heard/displayed after a few moments accompanied by an information box at the bottom of the TV screen with details of the selected service.

**NOTE:** To select services requiring two-digit numbers, i.e., 10-99, press the first digit, then the second digit without pausing.


**TIP:** When the key for the first digit is pressed on the RCU, the corresponding number is displayed on the left of the front panel numerical display on the decoder. After a few moments, the number moves to the right. The second digit of two digit numbers must be keyed in before this move takes place.

## Stepping through Services

Stepping through services is possible using either the RCU or decoder front panel keys.

### Stepping using the RCU

To step through services using the RCU, do the following:

- 1 Select the type of service required, TV or audio ()
- 2 Press P+ to step to the next service or P - to step to the previous service in the list of available services.

After pressing P+ or P -, an information box is displayed at the bottom of the TV screen with details of the service. After a few seconds, the relevant service is displayed/heard.

- 3 If required, continue stepping by pressing P+ or P - until you find the service you prefer. It is not necessary to wait for services to be displayed/heard before stepping to the next or previous service.








If you decide to watch or listen to a service you have stepped to, wait for the service to be displayed/heard. The information box will disappear after a short while or can be removed immediately by pressing EXIT.

**NOTE:** When you reach the last available service in the list and press P+ you are returned to the first service in the list.




**TIP:** Use the convenient selecting and sorting facilities to personalise the services list. After using these facilities, your favourite services will be in your order of preference. Refer to page 20.

### Stepping using the Decoder Front Panel Keys

To step and select a specific service using the decoder front panel keys, do the following:

- 1 Select the type of service required, by pressing TV/ to switch between TV services and audio services. Selection of the audio service is indicated by a green indicator on the front panel display.
- 2 Press  (up) to step to the next service or  (down) to step to the previous service in the list of available services. After pressing  or , an information box is displayed at the bottom of the TV screen with details of the service. After a few seconds the relevant service is displayed/heard.
- 3 Continue stepping, by pressing  or  until you find the service you prefer. It is not necessary to wait for services to be displayed/heard before stepping to the next or previous service.

To view/listen to any service you have stepped to, wait for the service to be displayed/heard. The information box will disappear after a short while.

**NOTE:** When you reach the last service in the list, pressing  returns you to the first service in the list. The  and  symbols have dual functions and cannot be used for stepping while the volume control box is displayed on the screen. This box is displayed when setting the volume, see page 14.



## Selecting Specific Services from the EPG

**NOTE:** For a description of the Electronic Programme Guide (EPG) refer to page 15.

## Selecting Services from the Information Bar

**NOTE:** A description of the Information Bar is on page 16.

## Controlling the Show

### Volume Control using the RCU Keys

**NOTE:** It is recommended that you first select a terrestrial channel, then set the volume on the TV to a comfortable listening level.

To change the volume level on the decoder, select your satellite service, then press V+ to increase the volume level or V- to reduce the volume level. The following is displayed on the TV screen when adjusting volume:



The volume level is depicted by the length of the highlight bar.

**NOTE:** The Fixed Stereo Sound Outputs (Left and Right) cannot be controlled with the volume control keys on the RCU or on the front panel.

### Volume Control using the Decoder Keys


To change the volume level, press P/V on the decoder. The volume is again displayed for a brief time:

While the volume control window is displayed, press and release ▲ or ▼ respectively to increase or reduce the volume level in separate steps. The change in volume level is depicted by the changing length of the highlight bar.


**NOTE:** The Variable Stereo Sound Outputs (Left and Right) can be controlled using the volume control keys on the RCU or on the front panel.

## Mute

To mute the audio do the following:

- 1 Press  on the RCU. The following window is displayed for 3 seconds and the audio muted:



- 2 To restore the audio press  again. The audio is restored at the previous level and the volume control window displayed for 3 seconds.



- 3 Adjust the volume level using V+ and V-.


**NOTE:** The mute function is disabled when the FIXED STEREO audio outputs (Left and Right) on the decoder are used. This ensures a fixed volume level for recording purposes. The VARIABLE STEREO audio outputs (Left and Right) of the decoder can, however, be muted.

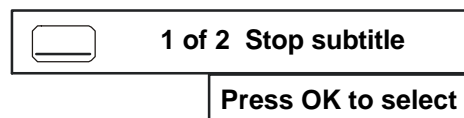
## Displaying Subtitles or Teletext

### Subtitles

If subtitles are available, they are normally displayed on the screen as part of the program.

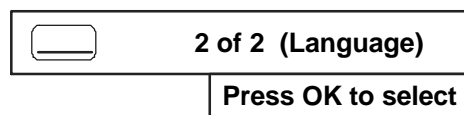
To remove a subtitle do the following:

- 1 Press  symbol on the RCU. A box is displayed on the TV screen as follows:




**NOTE:** If subtitles are not available, a "No subtitling" window is displayed for 5 seconds. Press EXIT if required.

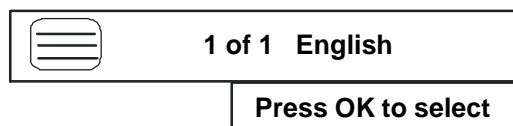
- 2 To restore the subtitles, press  again. The following box is displayed




### Teletext

Some services (e.g., CNN) have a teletext service. This can be selected as follows:

- 1 With the service selected, i.e., CNN, press  symbol twice on the RCU. The following box is displayed:




If teletext is not available, a "No teletext" window is displayed for 5 seconds. If other languages are available keep pressing the symbol until the language is selected.

- 2 To make the teletext transparent press the  symbol again.
- 3 To page up or down, press P+ or P- on the RCU. To change to a distant page, select the page number on the RCU keypad, then press OK
- 4 To clear the teletext, press EXIT on the RCU.

## Clock

To view the time do the following:


- 1 Press  on the RCU. The date and time are displayed for a few seconds. If required press EXIT to clear.

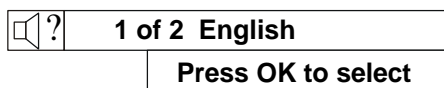
## Selecting Soundtracks

Available soundtracks, included with programmes, can be heard and selected at any time while watching a programme.

**NOTE:** Preferred soundtrack languages for automatic selection can be set using the menu system. Refer to Soundtrack Options (page 19).

To listen to and select available soundtracks, do the following:



- 1 Press  on the RCU. The current soundtrack language is displayed as follows:



Pressing OK selects the option listed.

- 2 Press the symbol again. If there are additional soundtracks available, the next soundtrack option is listed in the window. Continue pressing to cycle through all the available soundtracks.
- 3 Press OK to select a soundtrack language. The soundtrack window is displayed and the new soundtrack is heard.

## Power Reset

If your TV picture freezes for a prolonged period, it is possible to reset the decoder without unplugging it from the power supply. Simultaneously press then release the  and TV/ buttons on the decoder front panel.

## Signal Source Selection

Switching between signal source devices is automatic by using the UHF button on the RCU. To select between the available signal sources, a single press-release of the UHF button in normal running mode (i.e., not in menu or EPG) switches to the next source. This is an override selection in that it will switch to VCR even if a VCR is not playing.

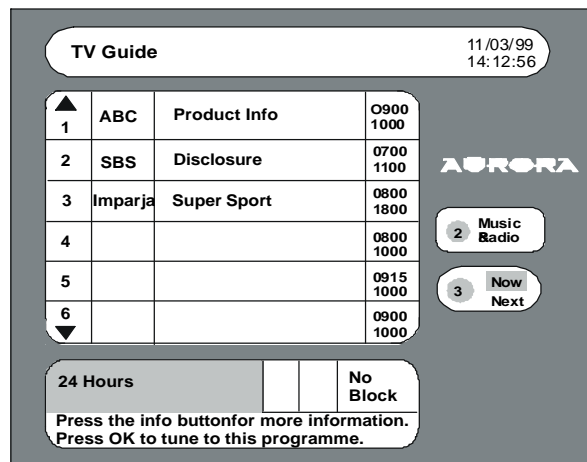
The signal source is indicated on the decoder front panel display. The available options are:

- ! Decoder (IRD): This allows you to use your satellite services. If your TV and decoder are connected through SCART, this will automatically switch your TV to AV and keep control of it. If you do not wish this function to take place automatically, it can be changed in the Installation menu. IRD is temporarily displayed on the decoder front panel, defaulting to the channel number.
- ! VCR: This allows you to view a program on the VCR. Press Play on the VCR to view. If the VCR is in standby (off), and it has a second SCART input, any source connected to the SCART will be passed on to the decoder. VCR is temporarily displayed on the decoder front panel.
- ! TV: If your decoder and TV are connected through SCART, it will allow normal terrestrial channels to be viewed on the TV. If the TV connector is not used, it will have the same effect as the IRD setting.




## Electronic Programme Guide

### Using the EPG

- 1 On the RCU, press TV GUIDE. An on-screen menu is displayed as follows:



**NOTE:** TV programmes are not displayed and audio not heard while the EPG screen is displayed.



- 2 Use the cursor keys  or  to scroll up or down the list, as only six events are shown on the screen. When the last event is highlighted and you press , six new events are displayed and the highlight is put at the top of the list. This also works for scrolling up.

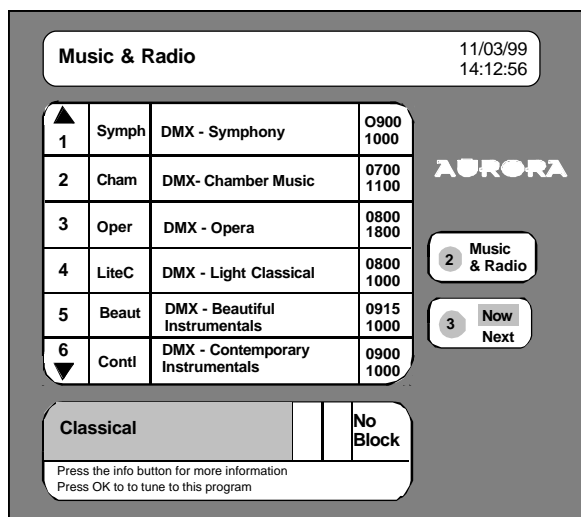
The list is continuous, so after the last service the Guide starts displaying service 1 again.

The current programmes are listed when NOW is selected and the programmes to follow are listed when NEXT is selected.

- 3 To move between the NOW or NEXT programmes, press 3 on the RCU.
- 4 Select the highlighted programme to view/hear by pressing OK. NEXT programmes cannot be viewed before their start time.

Pressing OK with NEXT selected sets a program reminder and a clock symbol appears in the information box at the bottom of the screen, indicating a reminder. To remove the reminder press OK again; the clock symbol disappears and a message appears indicating that the reminder has been cancelled.

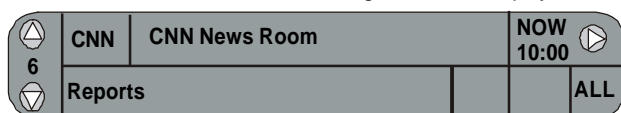
- 5 Additional information on the program is displayed when  on the RCU is pressed with a service on the the EPG selected. Press EXIT to return to the EPG.
- 6 Press 2 on the RCU to enter the Music & Radio guide. The Music & Radio guide behaves exactly the same as the TV guide. Pressing 1 on the RCU takes you back to the TV guide.
- 7 Press OK to return to normal viewing/listening.
- 8 In all programme guides, additional information on the programs is displayed when  on the RCU is pressed while the EPG is displayed and programme highlighted.



## OPEN TV INFORMATION BAR

At any time whilst watching TV services or listening to radio services, the viewer can obtain information about the current programme and select available programmes via the Information Bar.

- 1 Press **i** on the RCU. The following window is displayed:



- 2 Use the cursor keys **▲** or **▼** to scroll up or down through titles on other services, whilst simultaneously watching the current service. The current programmes are listed when NOW is selected and the programmes to follow are listed when NEXT is highlighted.

Pressing **i** with the Information Bar displayed, provides additional information on the programme. The local time will also be displayed on the TV when the Information Bar is displayed.

- 3 Move between the NOW or NEXT programmes by pressing **◀** or **▶** on the RCU.

- 4 With NEXT selected, an Information Bar appears that displays the next programme. Pressing OK sets the reminder and a clock symbol appears in the Information Box. Pressing OK again removes the reminder.

NEXT programmes cannot be viewed before their start time. To exit the Information Box, press EXIT.

- 5 When viewing a programme, to tune to another programme press the numbered keys on the RCU. The Information Bar will be displayed for X seconds (see Information Box Display Period, page 20).

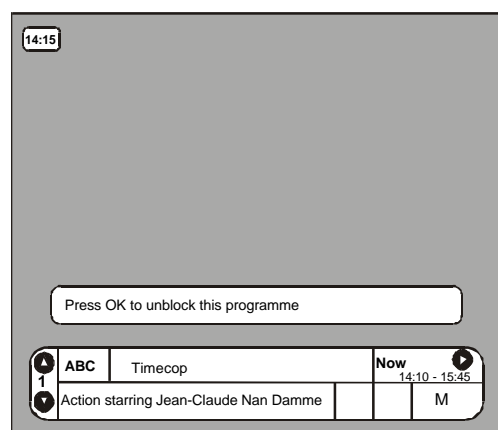
## REMINDERS

The procedure for setting and removing a reminder has already been detailed.

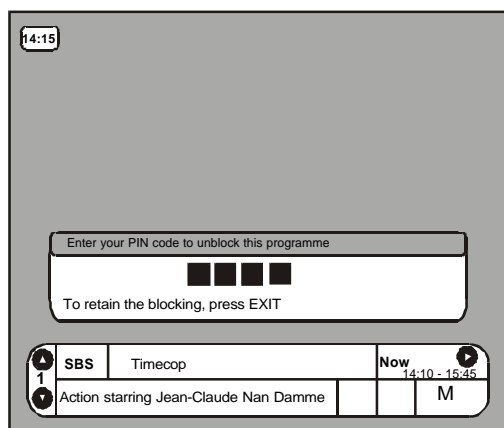
Refer to Open TV Electronic Programme Guide page 15 or Open TV Information Bar page 17. At the right time a reminder message pops up. If you intend to watch the booked programme, press OK on the RCU which tunes the decoder to the new service. Otherwise press EXIT to remove the message, while remaining tuned to the original service.

## PROGRAMME BLOCKING

When the user has selected a service where there is a parentally blocked programme, a "key" symbol is displayed in the Information Bar (bottom right). The message above the Information Bar indicates that the user should press OK to unblock the programme.

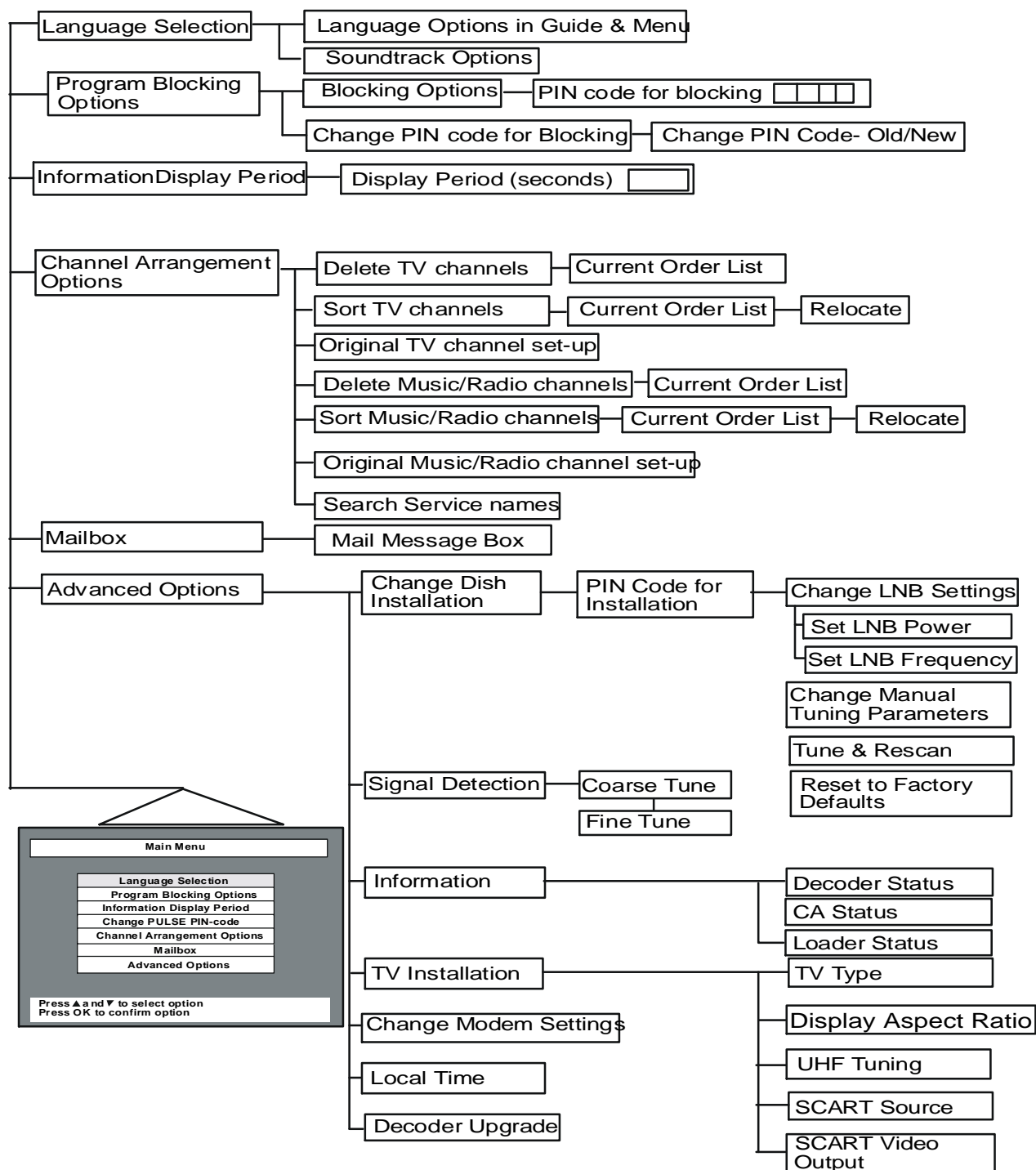


- 1 Press OK. A screen requiring the Parental PIN code is displayed.



- 2 Enter your Parental PIN code using the keypad. Refer to Program Blocking Options page 19. The programme is then unblocked.


## Menu Navigation Route

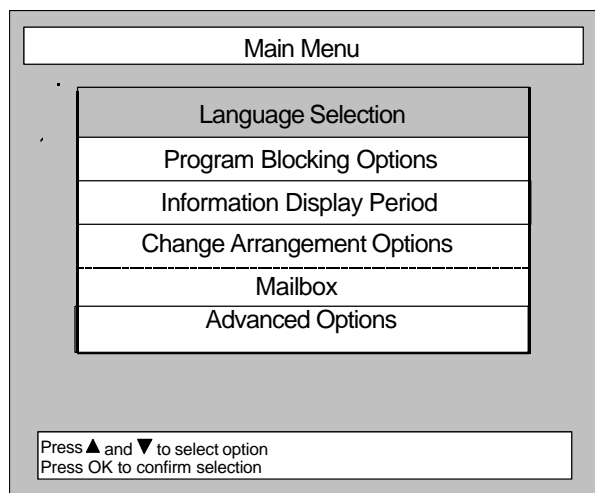


**NOTE:** The menu structure is occasionally upgraded over the air by the Service Provider and may differ slightly from that shown in these instructions.

## USING MENUS

To use the Menu system:

- 1 Ensure that the decoder is not in standby mode by pressing  if necessary.
- 2 Press MENU on the RCU. The following Main Menu is displayed, which provides access to all other menus as shown in the following figure:



All the menus are navigated as follows:

- 1 Use ▲ or ▼ buttons to scroll the highlighted bar up or down in a (sub)menu or a vertical list box.
- 2 Select a highlighted menu option and go one level lower within the menu hierarchy by pressing OK on the RCU. This applies to the Main Menu screen and all submenu screens.  
  
In screens where parameters can be set, OK is used to save the settings.
- 3 Use EXIT to return to the preceding menu (go one level higher within the menu hierarchy).  
  
In screens where the parameters can be set, EXIT is used to cancel any settings that may have been entered without saving.
- 4 Use ◀ and ▶ buttons to change the value of an input field having preprogrammed values.
- 5 Use MENU to exit all menus and return to the TV or audio programme.
- 6 Use numbered buttons to enter numerical values.

### Language Selection

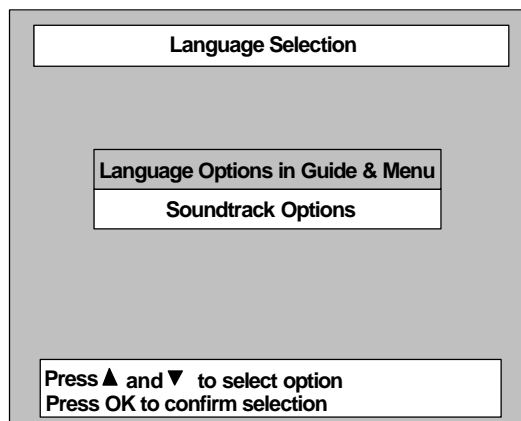
The Language Selection screen allows users to set the text language of the decoder. The text language is set for the menus, EPG and Information Bar.

To select the text language of your choice do the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.

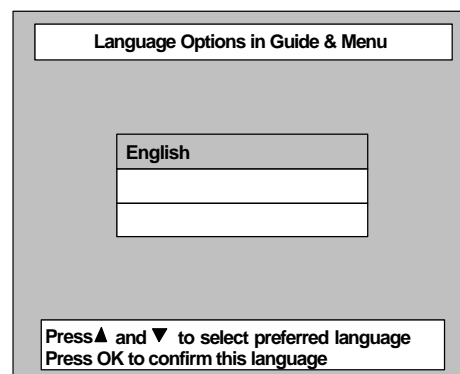
**NOTE:** On initial selection of the Main Menu, the default setting is for Language Selection.

- 2 Press OK. The following option list is displayed:



### Language Option in Guide and Menu

- 1 On selection the Language Options in Guide and Menu option is highlighted.
- 2 Press OK.  
The Language Menu containing a selection of languages is displayed, as follows:



- 3 Use ▲ or ▼ arrows to highlight any other preferred language.
- 4 Press OK to select the desired language.
- 5 Press EXIT to return to the Main Menu or MENU to return to the service.

The menu should now be presented in the language selected.

### Soundtrack Options

The Soundtrack Options allows users to set the soundtrack language preference of the decoder, if an option is available, and is achieved by moving the available languages into a list of choice.

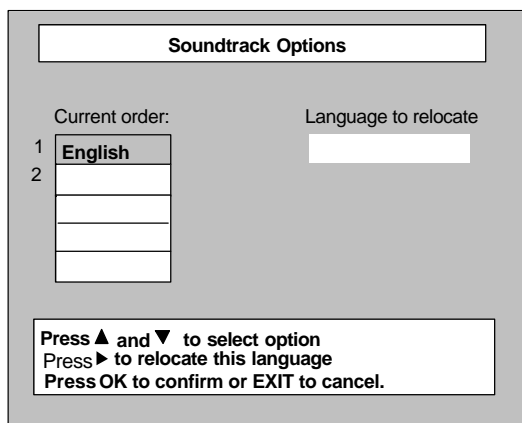
To select the soundtrack language of your choice do the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.

**NOTE:** On initial selection of the Main Menu, the default setting is for Language Selection.

- 2 Press OK to select Language Selection, then select Soundtrack Options. The following option list is displayed:






- 3 On the RCU, press ▲ or ▼ arrow to highlight the preferred language that you wish to relocate from the list.
- 4 Press ► to move the highlighted language option into the relocation window.

**NOTE:** Although several languages can be available, only two can be relocated into positions 1 and 2.

- 5 Press OK to confirm your selection.

**NOTE:** Pressing  on the RCU displays the following window at the top of the TV screen:



## Program Blocking Options

The decoder includes a parental guidance facility to control viewing of age restricted programmes. Access to this facility is controlled via the Parental PIN code.

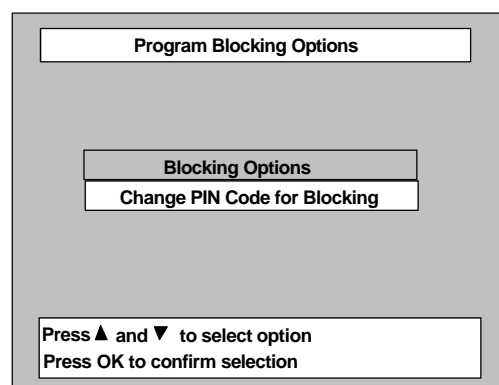
**TIP:** The PIN is set at the factory to 1 2 3 4. If you intend to use the parental guidance facility, please change the PIN as soon as possible. Remember to keep a note of your new PIN in a secure place.

Program blocking can only be applied to scrambled programmes.

**NOTE:** To use or change the Parental PIN code your smart card must be in the decoder.

### Blocking Options

- 1 Press MENU on the RCU.  
From the Main Menu options list select Program Blocking Options.
- 2 Press OK.  
A screen is displayed with Blocking Options highlighted as follows:



- 3 Press OK.  
A Security Check screen is displayed, in which the PIN code must be entered using the RCU.
- 4 On entering the correct PIN, a Parental Guidance submenu is displayed, which is organised as follows:

**NOTE:** If the incorrect PIN is entered, the previous menu (Security Check) is again displayed.

MENU OPTION	EXPLANATION
Block All	All scrambled programmes are blocked
Block PG and above	Parental Guidance for children up to 7 years
Block M and above	Can be viewed by mature persons older than 12 years
Block MA and above	Can be viewed by mature persons older than 15 years
Block R and above	Restricted to persons older than 18
No Block	Can be viewed by all the family

- 5 Press ▲ or ▼ to highlight the preferred control option.
- 6 Select your choice by pressing OK on the RCU.
- 7 Press EXIT to return to the Main Menu or MENU to return to the service.

### Changing the PIN Code for Blocking

To change your existing PIN to a new number, carry out the following:

- 1 Press MENU on the RCU. The Main Menu options list is displayed.
- 2 Press ▼ to select the Program Blocking Options, then press OK.
- 3 On the Program Blocking Options menu, press ▼ to highlight Change PIN Code for Blocking, then press OK. The Change PIN screen is displayed.
- 4 Key in your old PIN code.  
This automatically highlights the new PIN code to be entered.
- 5 Change the PIN to its new value. Instead of digits, crosses are displayed for the PIN codes. When the new PIN code is entered, a second box is highlighted requesting you to re-enter the new code. This is a safeguard against an initial incorrect entry.
- 6 The Program Blocking Options menu is displayed.

- 7 Press EXIT to return to the Main Menu or MENU to return to the service.

## Information Box Display Period

If the period of time that the Information Bar is displayed is either too long or too short, change the Information Bar display time as follows:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Information Box Display Period.
- 3 Press OK. The Information Box Display Period screen is displayed.
- 4 Press ◀ or ▶ to change the info display period (in seconds).
- 5 Press OK to confirm the new time or EXIT to cancel the screen. The Main Menu is displayed.
- 6 Press EXIT or MENU to return to the service.

## Change PULSE PIN-code

The Change PULSE PIN-code option allows you to change the number of your Pulse PIN code and works in the same way as that for the Program Blocking Options.

## Channel Arrangement Options

**NOTE: Main Menu option "Channel Arrangement Options" can only be selected after successfully receiving programming information over-the-air. Before this happens this option is not displayed.**

When the decoder receives digital satellite signals, it also receives text information about the television and audio services that are being broadcast. The decoder automatically stores this continually updated information which you can view at any time.

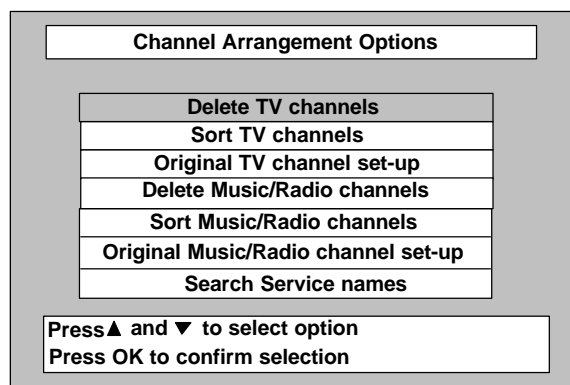
The decoder also provides sort and reset features to allow you to arrange the service lists according to your own personal preference.

### Delete TV Channels

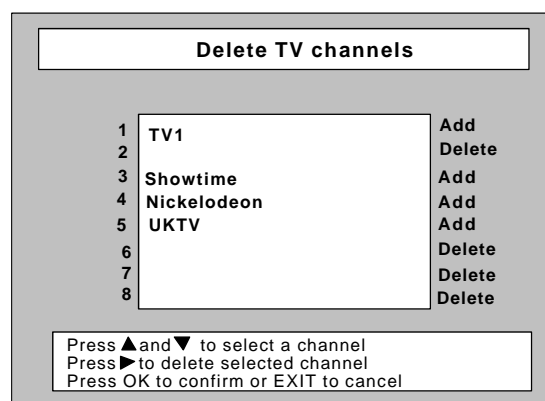
You may prefer that the list of programmes should only contain your favourites or should not list those you do not yet subscribe to. By marking a programme to be deleted, it will not be selected when stepping through the programme list.

To delete TV services do the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Channel Arrangement Options.
- 3 Press OK. The Channel Arrangement Options menu is displayed with Delete TV channels highlighted.



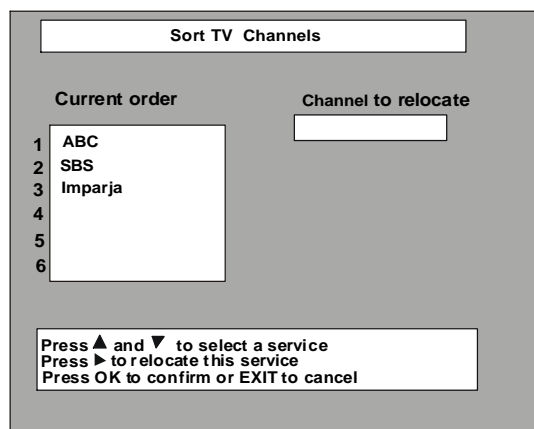
- 4 Press OK.  
The Delete TV channels screen is displayed which lists eight channels. The list is composed of skipped and non-skipped services. Skipped services are indicated by DELETE on the right of the box, non-deleted services have ADD.



### Sort TV Services

This feature allows you to sort your services into an order of your choice. The sorting process defines the TV service you want on any channel number. To sort the order, perform the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Channel Arrangement Options.
- 3 Press OK to display channel arrangement list, in which the Sort TV Services option is highlighted.
- 4 Press OK. The Sort TV Services screen is displayed as follows:



- 6 From the displayed list, choose the service that you wish to move using ▲ or ▼ on the RCU.
- 7 Press ► to move this service into the **service to relocate** box.
- 8 Press ▲ or ▼ to highlight the position where you want the service from the relocation box to be placed.
- 9 Using ◀, move the service that is now in the relocation box into the new position in the current order list.
- 10 Repeat steps 6 to 9 until all services are set as you wish.
- 11 Press OK to confirm your selections.  
The Organising Services menu is displayed.
- 12 Press EXIT to return to the Main Menu or MENU to return to the service.

### Original TV Channel Setup

To reset the TV services to the order supplied by the Service Provider, do the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Channel Arrangement Options.
- 3 Press OK to display channel arrangement options list.
- 4 Press ▼ to highlight Original TV Channel Setup.
- 5 Press OK to reset the services list to the list supplied by the Service Provider.  
  
A message “**Do you want to reset the TV Channel list?**” is displayed.
- 6 Press OK.  
A scanning screen is displayed after which the TV returns to its original channel.

### Delete Music/Radio Channels

Refer to “Delete TV channels” page 18. Select Delete Music/Radio channels instead of TV channels.

### Sort Music/Radio Channels

Refer to “Sort TV Services” page 20. Select Sort Audio Services instead of TV Services.

### Original Music/Radio Channel Setup

Refer to “Original TV channel set-up” this page. Select Original Music/Radio channel set-up instead of Original TV channel set-up.

### Search Service Names

This facility is used when a new service provider becomes available. It is recommended that this facility is used on a weekly basis to upgrade the services available to you .

- 1 Press MENU on the RCU.  
The Mains Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Channel Arrangement Options.
- 3 Press OK to display channel arrangement options list.

- 4 On the RCU, press ▼ to highlight Search Service Names.
- 5 Press OK.  
A message “**Do you want to start the search**” is displayed.
- 6 Press OK to confirm.  
A scanning screen is displayed in which are listed the operators, services and transport streams. After a period of time, the previous service is automatically restored.

**NOTE: The personal sort list is lost after a full rescan has been performed.**

### Mailbox

The Service Provider can send global or individual messages over the air. When a message has been received, the yellow front panel indicator will be illuminated and the ☒ symbol displayed on every menu screen.

To read the message do the following:

- 1 Press MENU on the RCU.  
The Mains Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Mailbox.
- 3 Press OK. The Mail Messages screen is displayed.
- 4 Press OK to return to the Main Menu.

The front panel yellow indicator will be OFF and the mail symbol will no longer be displayed.

### Advanced Options

Selecting the Advanced Options on the Main Menu provides access to important technical settings for the decoder and satellite dish antenna.

### Change Dish Installation

#### Important!

**The installation settings should be set by a qualified person.**

**Do not change any installation settings before carefully noting the value of the setting you want to change and ensuring that the new and old values are written down on page 30. Incorrect settings will prevent the decoder from operating correctly.**

An installation PIN code must first be entered before the Change Dish Installation and its sub-menus can be accessed. This measure helps to prevent accidental changes to the set up. The PIN code is 9949. This number cannot be changed.

### LNB Configuration

Your decoder supports several LNB and network configuration options. If your satellite dish installation does not include a Universal (dual) LNB set up to the factory default settings, it is recommended that you consult your installer as to your particular setup requirements.

Information on these options for the installer can be found on the Manufacturer's website:

<http://www.uec.co.za>

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### *Set LNB Power*

In most installations the correct setting for the LNB Power is "On". Certain special applications may require the setting to be "Off".

To set the LNB Power "On" or "Off", do the following:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed, in which the Change Dish Installation option is highlighted.
- 4 Press OK.  
The PIN Code for Installation screen is displayed.
- 5 Type the PIN code 9949 using the keypad on the RCU. See Note. After successfully entering the installation PIN, the Change Dish Installation Menu is displayed, in which the LNB Configuration option is highlighted.

**NOTE: 9949 is the installation PIN code. A different PIN code is required for the Parental Guidance PIN .**

- 6 Press OK.  
The LNB Configuration Menu is displayed, in which LNB Setup 1 highlighted.
- 7 Press OK. The Set LNB Power screen is displayed.
- 8 Press OK to save ON setting, or press ◀ to set the LNB power to OFF.
- 9 Press OK to activate the setting.  
The Change LNB Settings Menu is displayed.
- 10 Press EXIT to return to the previous menu or MENU to return to the service.

### *LNB Setup*

The LNB mode and frequency or frequencies must be appropriate for the LNB installed on the satellite dish. The information is supplied with the LNB.

To set the frequency:

- 1 Repeat steps 1 to 6 of Set LNB Power (page 21).
- 2 Press ▼ to highlight LNB Mode.
- 3 Press ▼ to highlight LNB frequency.
- 4 Press OK.  
The LNB Configuration menu screen is displayed. Press EXIT.
- 5 The Change Dish Installation menu screen is now displayed.
- 6 Press ▼ to highlight Signal Setup, then press OK.
- 7 Signal Setup 1 (home) is now highlighted on the Signal Setup menu. Press OK.
- 8 The Signal setup screen displays the parameters for the particular signal source, and also shows the configuration of the selected LNB.

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### **Signal Setup Alternatives**

The factory preset values will normally not require changing. If, however, it is necessary to insert values for other signal sources, it is recommended that you contact your local installer.

### **Tune DSD**

If the settings made in LNB Configuration and Signal Setup are satisfactory, retune the decoder with these settings as follows:

- 1 Press ▼ to highlight Tune DSD.
- 2 Press OK.

A rotating bar on the decoder front panel indicator indicates that it is searching for the default frequency. The decoder then returns to the current service, and the Information Bar and Clock are displayed for the preset period of time.

### **Reset to Factory Defaults**

If difficulty is experienced in the functioning of the decoder, it may be advisable to reset the factory defaults. This is achieved by selecting the Reset Factory Defaults then pressing OK.

### **LoopThrough Mode**

The Loop through Mode is used when the installation is using DiSEqC control of LNBs. In a normal setup, it is not important whether this is Enabled or Disabled. If DiSEqC LNB is used, consult your installer.

### **Signal Detection**

This facility is used to help final alignment of the satellite dish and to confirm that a signal is being received from the satellite.

**NOTE: For LNB adjustment refer to the LNB installer. The decoder signal detection facility is only useful for final alignment of a dish that is already aimed roughly at the satellite. If there is no signal the bars will not be present.**

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.
- 4 Press ▼ to highlight Signal Detection.
- 5 Press OK.  
The Signal Detection screen is displayed. The screen shows the service provider name and the strength of the signal.
- 6 Adjust the alignment of the dish to obtain the maximum signal strength as indicated by the bars on the screen. Press ▲ and ▼ to toggle between the coarse and fine tuning.
- 7 Physically lock the dish into position, then re-check the signal detection.
- 8 Press OK.  
The Advance Options Menu is displayed.
- 9 Press EXIT to return to the Main Menu or MENU to return to the service.

---

## Information

The Information Menu has three sub-menus, DSD Status, CA Status and Loader Status, which provide important diagnostic and version information to technical personnel. These status screen are read-only screens. You may be asked to read some of this information to Hot Line personnel.

To view the information do the following:

### DSD Status

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.
- 4 Press ▼ to highlight Information.
- 5 Press OK.  
The Information Menu is displayed, in which the DSD Status option is highlighted.
- 6 Press OK. The DSD Status screen is displayed
- 7 To exit the DSD Status information screen, press EXIT to return to the previous menu or MENU to return to the service.

### CA Status

- 1 Repeat steps 1 to 5 of the DSD Status screen.
- 2 Press ▼ to highlight CA Status.
- 3 Press OK. The CA Status screen is displayed.
- 4 To exit the CA Status information screen, press EXIT to return to the previous menu or MENU to return to the service.

### Loader Status

- 1 Repeat steps 1 to 5 of the DSD Status screen.
- 2 Press ▼ to highlight Loader Status.
- 3 Press OK.  
The Loader Status screen is displayed.
- 4 To exit the Loader Status information screen, press EXIT to return to the previous menu or MENU to return to the service.

## TV Installation

### TV Type

Typical values are PAL I, PAL B, PAL G, PAL B/G, etc. The TV type is determined by the TV system used in the country of installation (default is PAL BG).

To set the TV Type:

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.
- 2 On the RCU, press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.

- 4 Press ▼ to highlight TV Installation.
- 5 Press OK.  
A security check screen is displayed, in which you must enter the installation PIN (9949).  
  
The TV Type option is automatically highlighted when the correct PIN is entered.
- 6 Press OK. A TV type list is displayed in which PAL BG is highlighted. Press ▼ to highlight any other TV type.
- 7 Press OK to activate the setting and leave the screen, or EXIT to cancel the setting.

### Aspect Ratio

The Aspect Ratio allows the user to select between a normal width TV and a wide-screen TV.

- 1 Repeat steps 1 to 5 for setting the TV Type (page 23).
- 2 Press ▼ to highlight Aspect Ratio.
- 3 Press OK.  
The Aspect Ratio screen is displayed, in which the 4:3 aspect is highlighted.
- 4 Press ▼ to select the 16:9 aspect ratio (4:3 is for normal TV, 16:9 for wide-screen TV).
- 5 Store the setting by pressing OK on the RCU.

### UHF Tuning

The UHF Tuning application allows the user to select a particular UHF channel for satellite viewing.

- 1 Repeat steps 1 to 5 for setting the TV Type (page 23).
- 2 Press ▼ to highlight UHF Tuning.
- 3 Press OK. The UHF Tuning screen is displayed and the decoder front panel display shows the current UHF channel number.
- 4 Press ◀ or ▶ to increase or decrease the channel number. If the channel number is changed, the TV picture is lost because the TV is not tuned to the new channel. The changed channel number is displayed on the decoder front panel.
- 5 Store the setting by pressing OK on the RCU.
- 6 Press MENU to exit from the menu.
- 7 Retune the TV set to the new decoder UHF channel.

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**TIP:** Pressing and holding down UHF (not in menu, Information Bar or EPG mode) also causes the UHF Tuning screen to be displayed.

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**NOTE:** Pressing EXIT at any time while this screen is displayed will return you to the service without saving any changes made.



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### **SCART Source**

This screen allows the user to set the sources for the various SCART connectors on the decoder.

The options available for each SCART source are:

- a. Satellite
- b. TV
- c. Video recorder

To change the settings of Scart Source screen, do the following:

- 1 Repeat steps 1 to 6 for setting the TV Type (page 23).
- 2 Press ▼ to highlight SCART Source.
- 3 Press OK. The SCART Source option is displayed.
- 4 Press ◀ or ▶ to set the input signal of the selected SCART source.
- 5 Store the setting by pressing OK on the RCU.
- 6 Press EXIT to return to the previous menu or MENU to return to the service.

### **SCART Video Output**

This screen allows the user to set the type of SCART video output for the various SCART outputs on the decoder.

The options available for each SCART output are:

- a. TV SCART Output: Composite  
RGB  
S Video  
Not used

**NOTE:** When Not Used is selected the VCR SCART output is not displayed.

- b. VCR SCART Output: Composite  
S Video

To change the settings of the Scart Video Output screen, do the following:

- 1 Repeat steps 1 to 6 for setting the TV Type (page 23).
- 2 Press ▼ to highlight SCART Video Output.
- 3 Press OK. The SCART Video Output screen is displayed.
- 4 Press ▼ to highlight the SCART output to be edited.
- 5 Press ◀ or ▶ to set the output signal of the selected SCART.
- 6 Store the setting by pressing OK on the RCU.
- 7 Press EXIT to return to the previous menu or MENU to return to the service

### **Change Modem Settings (if fitted)**

If a modem is installed in the decoder, the Change Modem Settings screen allows the user to select Pulse or Dial Tone for the modem, and (if applicable) to define a prefix string for the modem.

- 1 Press MENU on the RCU.  
The Main Menu options list is displayed.

- 2 Press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.
- 4 Press ▼ to highlight Change Modem Settings.
- 5 Press OK.  
The Change Modem Settings screen is displayed.
- 6 Press ▲ or ▼ to highlight the field to be edited.
- 7 Edit the Pulse/Tone setting using ◀ and ▶.
- 8 Edit the Prefix digits using the numbered buttons and ◀ as backspace.
- 9 Press OK to activate the setting and leave the screen.
- 10 Press EXIT to return to the previous menu or MENU to return to the service.

### **Local Time**

Greenwich Mean Time is transmitted via the satellite signal and received by the IRD. If the user lives in a different time-zone, the IRD must be set up during installation to show the correct local time for the Local Time. In order to set the time do the following :

- 1 Press MENU on the RCU.  
The Menu Options list is displayed.
- 2 Press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.
- 4 Press ▼ to highlight Local Time.
- 5 Press OK.  
The Local Time screen is displayed.
- 6 Press ◀ and ▶ to add or subtract offsets of 30 minutes until the local time displayed shows the actual time for your location.
- 7 Press OK to save the setting and leave the screen.
- 8 Press EXIT to return to the previous menu or MENU to return to the service.

### **DSD Upgrade**

Upgrades involve replacing the software (programs) in the DSD with improved software, adding more features and improving the existing operation of the DSD. This ensures that the DSD does not have to be replaced each time advances in technology occur.

DSD software upgrades normally take place automatically over-the-air. The DSD can be upgraded when it is in standby or while it is switched to a channel. The DSD cannot be upgraded if it is switched off at the mains. It is strongly recommended that your DSD is in standby when you are not using it (you do this by pressing ⏻ on the RCU).

The Mail Menu will usually warn you that a software upgrade will take place.

A facility is provided whereby you can check if new software is available and you can then start the upgrade yourself. This is necessary if the DSD has not been upgraded over-the-air due to, for instance, prolonged power failures.

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To upgrade the DSD software or check whether an upgrade is available, carry out the following:

- 1 Press the menu button on the RCU once. The Main Menu will appear on the TV set.
- 2 Press ▼ to highlight Advanced Options.
- 3 Press OK.  
The Advanced Options Menu is displayed.
- 4 Press ▼ to highlight DSD Upgrade.
- 5 Press OK.

The Upgrade screen is displayed with the message "Checking for upgrade". At this point, depending on whether an upgrade is available or not, one of the following two messages appears on your TV screen:

**Failure: no download found. or The upgrade will take approximately X minutes.** Press OK to continue or EXIT to cancel.

If no upgrade is available, the decoder will return to the service.

If an upgrade is available but you do not wish to upgrade, press EXIT to return to the previous menu.

- 6 If you wish to upgrade press OK. A message is displayed:

**The upgrade is active and will take approximately X minutes**

After the download is completed, the decoder will return to the current service.

The process will take approximately 23 minutes. **DO NOT DISCONNECT THE DSD MAINS CONNECTION OR ANTENNA CABLE DURING THIS PERIOD.**

If, during an over-the air download, the decoder fails to accept the download or freezes, a forced download can be performed as follows

On the DSD front panel carry out the following procedure:

Press STANDBY, ▲, ▼, STANDBY in sequence. All button presses should be done in quick succession.

A rotating bar on the DSD display indicates that a download is taking place.


## TROUBLESHOOTING

If any problems are encountered when operating the decoder, make use of the following guidelines to assist in solving the problem. The decoder will automatically detect and diagnose many decoder and transmission related problems. Where possible, the errors will be communicated via messages on the TV screen and/or the decoder display panel.

Locate either the corresponding error number and message or the description of your problem in the troubleshooting table and follow the advice provided.

If you have tried the appropriate remedy and still have difficulty in operating your decoder, please call the appropriate hot line.

## TROUBLESHOOTING

Decoder Front Panel	Message/Display on TV Screen or Symptom	Possible Cause	Remedies
— — — — — — — — —	Any menu is displayed	Normal operation. The decoder is in menu mode	Press the MENU button on the remote to return to normal viewing
Blank display	Blank screen (TV switched on)	No mains power to the decoder	Ensure that the mains lead to the decoder and mains power point is securely plugged into the mains outlet, and that the mains is switched on
Small green dot	Blank screen (TV switched on)	Normal operation. The decoder is in standby mode	Press  on the remote to return to normal viewing
No small flashing green dot when any button on the remote is pressed	Any display	Remote control does not work	Check that remote batteries are correctly inserted. Replace batteries and re-try
	No Audio/Noisy Audio	PAL setting incorrect	Restore correct TV type for country of operation
Any programme number	Terrestrial programme displayed	Incorrect TV channel selected to view the satellite decoder	On the TV, select the channel allocated to view the decoder programmes
	Incomplete video recording - a portion of the recorded satellite programme has not recorded	The decoder has been switched to standby or to a different service during the recording	Do not make any adjustments or selections with the remote during recordings
— — — — — — — — —	Interrupted video recording. Menus or other text appear on the recorded satellite programme, or the sound level fluctuates  NOTE: The recording of any channel is subject to copyright laws	A button has been pressed on the remote	Do not make any adjustments or selections with the remote during recordings
Blank display	Security check screen followed by programme blocking menu	Incorrect PIN number entered	Refer to Programme Blocking in this manual. If you have forgotten your PIN code consult your service provider
Any programme number	Programme at incorrect programme blocking level	Programme blocking level set incorrectly	Refer to Parental Guidance section
3 flashing dashes and error dot (red)	TV picture breaks up and eventually NO SIGNAL banner displayed	Heavy thunderstorm in progress either locally or at transmission point	Wait until storm subsides
Any programme number	No audio or video	SCART functionality incorrectly set	Press UHF button on remote to obtain IRD on front panel display
3 flashing dashes and error dot (red)	NO SIGNAL or SEARCHING FOR SIGNAL AT XXXX MHZ	Faulty installation Signal problem Heavy rain (normal operation will resume as soon as the rain subsides)	Check, repair or replace cables Check decoder installation settings Realign the dish Call the service provider
Error dot (red)	E03 CA module failure	The CAM is malfunctioning	Call the service provider

TROUBLESHOOTING			
Decoder Front Panel	Message/Display on TV Screen or Symptom	Possible Cause	Remedies
Error dot (red)	E04 Please insert Smart Card	The Smart Card is not inserted	Reinsert the Smart Card Call the service provider
Error dot (red)	E05 Unknown card	The Smart Card is not applicable to this system	Reinsert the Smart Card Call the service provider
Error dot (red)	E06 Smart Card failure	The Smart Card is damaged	Call the service provider
Error dot (red)	E07 Checking Smart Card	The decoder is briefly checking the Smart Card	If, after 30 seconds, the message is still displayed, reinsert the Smart Card. Call the service provider
Error dot (red)	E08 CA Module failure	The CAM is malfunctioning	Call the service provider
Error dot (red)	E09 CAD EEPROM error	The Smart Card is malfunctioning	Reinsert the Smart Card Call the service provider
Error dot (red)	E11 Updating CAD EEPROM	The decoder is briefly checking the Smart Card	If, after 60 seconds, the message is still displayed, reinsert the Smart Card. Call the service provider
Error dot (red)	E12 CAM failure	The CAM is malfunctioning	Call the service provider
Error dot (red)	E13 CAM failure	The CAM is malfunctioning	Call the service provider
Error dot (red)	E14 Service is currently scrambled	There is a problem with the transmission	Wait for the resumption of transmission
Error dot (red)	E15 Smart Card error	Smart Card damaged	Call the service provider
Error dot (red)	E16 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E17 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E18 Unknown Card	The Smart Card is not applicable to this system	Insert the correct Smart Card Call the service provider
Error dot (red)	E19 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E20 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E21 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	Event Purchased		
Error dot (red)	Preview period		
Error dot (red)	E24 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E25 Event already purchased	Attempt to re-purchase an event	
Error dot (red)	E26 Event for sale - cheap	Special of the day	
Error dot (red)	E27 No further purchases possible	Event limit reached	Call the service provider

TROUBLESHOOTING			
Decoder Front Panel	Message/Display on TV Screen or Symptom	Possible Cause	Remedies
Error dot (red)	E28 Credit limit reached	Entitlements Credit in Smart Card exhausted	Call the service provider
Error dot (red)	E30 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E30 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E31 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E32 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E34 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E35 Service is currently scrambled	Access to service denied	Call the service provider
Error dot (red)	E37 Service unknown	System error	Call the service provider
Error dot (red)	E38 Service is not currently running	The service is being used for a special event	Consult the EPG
Error dot (red)	E39 Locating service	The decoder is busy locating a service	Wait briefly while service is located
Error dot (red)	E40 IRD memory full	System error	Call the service provider
Error dot (red)	E41 Service is not currently available	The programme has been blocked by means of Program Blocking	Re-assign blocking level
Error dot (red)	E42 Parental control lock	The service has been blocked	Reset blocking level if required
Error dot (red)	E45 Service not allowed	The satellite dish is not receiving a signal	Check that the satellite frequency has been correctly set Check the installation Call the service provider
Error dot (red)	E46 Reading satellite information		
Error dot (red)	E47 No soundtrack available	An unavailable language has been selected	Select an available soundtrack
Error dot (red)	E49 LNB overload detected	Installation faulty	Check installation for short circuits Consult installer
Error dot (red)	E50 No service available		
Error dot (red)	E 53 Incorrect PIN		
Error dot (red)	E54 IPPV OK		
Error dot (red)	E55 No event information found		
Error dot (red)	E56 CAM not compatible		
Error dot (red)	E64 Invalid tuning parameters		



## SPECIFICATIONS

Due to continued product improvement, this specification is subject to change without prior notice.

### GENERAL

Front Panel Control Buttons	On/Standby, TV/Audio, Programme/Volume up/down
Reset	On/Standby and TV/Audio simultaneously
RCU	Multi-button, infrared, battery operated RCU. Range 7 m, $\pm 45^\circ$ in horizontal plane, $\pm 20^\circ$ in the vertical plane. Batteries Type AAA
User Interface	Full On-screen Display with point and select menus for setup. TV viewing, audio listening, teletext and future interactivity
Subscription service facilities	Smart Card, on-board CA software and over-the-air upgradable software Built-in modem (optional) Data port
UHF Modulator	PAL I, B, G or BG, Ch 21 to 69, preset to Ch 38
Mains Voltage	210 - 250 V AC 50 Hz
Power Consumption	30 W Maximum
Dimensions	357 x 70 x 240 mm (W x H x D)
Weight	Approx. 2.5 kg (unpacked)
Operating Conditions:	Temperature $5^\circ\text{C}$ to $45^\circ\text{C}$
Relative Humidity	5% to 80% $<38^\circ\text{C}$ wet bulb temperature
Altitude	0 to 2000 m

### CONNECTORS

LNB input	F-connector
LNB output	F-connector
Terrestrial antenna input	IEC 169 female
TV RF output	IEC 169 male
TV SCART	SCART
vCR SCART	SCART
S-VHS	MiniDIN
Variable left channel audio output to TV/VCR	RCA
Variable right channel audio output to TV/VCR	RCA
Fixed left and right audio channels to Hi-Fi	RCA
Mono audio to TV/VCR	RCA
Internal modem (where fitted)	RJ11
External modem port	9 pin D-type male
Data service port	9 pin D-type female

### SATELLITE RECEIVER TUNER

Receiver Frequency Range	950 to 2150 MHz
Input Signal Level	-20 dBm to -65 dBm
Polarisation Switching	13.5 - 18 V DC 400 mA maximum, short circuit protection
DiSEqC	Modulated onto 22 kHz

### DEMODULATOR

Type	QPSK
Input Data Rate	2 to 45 Mb/s
Error Correction	DVB specified FEC code rates

### DSD VIDEO

MPEG-2

### DSD AUDIO

Decompression	MPEG-1, MPEG-2 Layer II, Musicam
Channels	Single channel, joint stereo, stereo
Sampling Frequencies	32.0 kHz, 44.1 kHz and 48.0 kHz

### REMODULATOR RF SIGNAL

Depth of Modulation	88%
Output Channel Range	21 to 69 (preset to channel 38)
Vision-to-sound ratio	14 dB
Vision-to-sound frequency variance	$\pm 20$ kHz from nominal
Vision carrier frequency drift	$\pm 10$ kHz
RF output level	73 dB $\mu$ V
Output spuri	$<-60$ dB
RF stray radiation	$<20$ dB $\mu$ V at antenna input
Intermodulation	-60 dBc
RF bypass bandwidth	47 MHz to 860 MHz
RF bypass insertion gain	2 dB
RF bypass channel tilt	1 dB

### MEMORY

RAM	4 Mbyte
Flash - RAM	2 Mbyte
Non-volatile memory	8 kbyte

### VIDEO SIGNAL

Output	1 V peak-to-peak, 75 $\Omega$
Format	PAL
Bandwidth	5 MHz

### AUDIO SIGNALS

Output	1 V r.m.s. into 10 $\text{k}\Omega$
Frequency range	20 Hz to 20 kHz at 44.1 kHz sampling rate
Dynamic range	80 dB
Distortion	$\pm 0.2\%$ @ 1 kHz
Noise	-80 dB $\mu$ V
L-R level difference	0.5 dB
Crosstalk	-60 dB

### EXTERNAL MODEM

Maximum data rate	19200 bits/s
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### DSD FACTORY SETTINGS

#	Installation pin	9 9 4 9
#	Remod Channel	38
#	TV-Standard	PAL B
#	TV Aspect Ratio	4 x 3
#	LNB Power	ON
#	LNB mode	Single
	LNB frequency	11300
#	Homing Channel	
	Frequency	12407
#	Homing Channel	
	Polarisation	Vertical
#	Homing Channel	
	Modulation	QPSK
#	Homing Channel	
	Symbol Rate	30000
#	Homing Channel	
	FEC Rate	2/3
#	Info Bar display time	5 seconds
#	Parental Level	Unlocked
#	Parental code	1 2 3 4
#	Language option	English

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## HOTLINES

MANUFACTURERS WEBSITE: <http://www.uec.co.za>

### Installation Settings (to be filled in by the installer)

DSD Serial No.

Date of Purchase

Smart Card Serial No.

Work Order No.

Installer Name

Installer Tele No.

UHF Channel Setting

LNB IN	1	2	3	4	5	6
LNB Power						
LNB Mode						
LNB Frequency						
Lo Freq						
Hi Freq						
DiSEqC Command						
Tone Burst						

Signal Setup number	1	2	3	4	5	6
Source Active						
Frequency						
Symbol Rate						
Polarisation						
FEC						
LNB Selection						

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## NOTES

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